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U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/534,788	Patrick Bauerle	VOSS:007US

INTERNATIONAL APPLICATION NO.

PCT/EP03/12664

I.A. FILING DATE	PRIORITY DATE
------------------	---------------

11/12/2003

11/13/2002

32425
FULBRIGHT & JAWORSKI L.L.P.
600 CONGRESS AVE.
SUITE 2400
AUSTIN, TX 78701

CONFIRMATION NO. 2638

371 FORMALITIES LETTER



OC000000019903053

Date Mailed: 08/08/2006

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495)

- Indication of Small Entity Status
- Priority Document
- Copy of the International Application filed on 05/13/2005
- Copy of the International Search Report filed on 05/13/2005
- Copy of IPE Report filed on 05/13/2005
- Preliminary Amendments filed on 12/15/2005
- Information Disclosure Statements filed on 05/30/2006
- Biochemical Sequence Diskette filed on 04/12/2006
- Oath or Declaration filed on 04/12/2006
- Biochemical Sequence Listing filed on 05/13/2005
- U.S. Basic National Fees filed on 05/13/2005
- Priority Documents filed on 05/13/2005
- Power of Attorney filed on 05/25/2006
- Specification filed on 05/13/2005
- Claims filed on 05/13/2005
- Abstracts filed on 05/13/2005
- Drawings filed on 05/13/2005

FULBRIGHT & JAWORSKI, LLP

IPT DOCKETING

Docketed ☒ Not Req'd ☐ Confirmation ☐

Initials 1st

om

Initials 2nd

sm

AUG 14 2006

Attorney

DJP, GSF

Docket No.

A0-VOSS:007US

Action Req'd

Date Due

1 mo. response (w/att)
extensions due 9/8/06.

Applicant's response filed 05/30/2006 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 01/12/2006 have not been completed.

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- **For Rules Interpretation, call (571) 272-0951**
- **For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.**
- **Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov**

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

KAREN M WILLIAMS

Telephone: (703) 308-9140 EXT 213

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/534,788	PCT/EP03/12664	VOSS:007US

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/534,788A
Source: PCT
Date Processed by STIC: 06/06/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chknote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/534,788 A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)

- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules

- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



PCT

RAW SEQUENCE LISTING

DATE: 06/06/2006

PATENT APPLICATION: US/10/534,788A

TIME: 10:58:58

Input Set : F:\VOSS007.txt

Output Set: N:\CRF4\06062006\J534788A.raw

3 <110> APPLICANT: BAUERLE, PATRICK
 4 HOFFMANN, PATRICK
 5 WEINBERGER, SUSANNE
 6 KISCHEL, ROMAN
 8 <120> TITLE OF INVENTION: METHOD FOR IDENTIFYING ANTIGEN SPECIFIC B CELLS
 9 <130> FILE REFERENCE: VOSS:007US
 10 <140> CURRENT APPLICATION NUMBER: 10/534,788A
 12 <141> CURRENT FILING DATE: 2005-05-13
 13 <150> PRIOR APPLICATION NUMBER: PCT/EP2003/012664
 15 <151> PRIOR FILING DATE: 2003-11-12
 16 <160> NUMBER OF SEQ ID NOS: 89
 18 <170> SOFTWARE: PatentIn version 3.1
 20 <210> SEQ ID NO: 1
 22 <211> LENGTH: 21
 23 <212> TYPE: DNA
 24 <213> ORGANISM: artificial sequence
 25 <220> FEATURE:
 27 <223> OTHER INFORMATION: mus musculus primer
 28 <400> SEQUENCE: 1
 30 accttcaaca ccccagccat g 21
 31 <210> SEQ ID NO: 2
 34 <211> LENGTH: 23
 35 <212> TYPE: DNA
 36 <213> ORGANISM: artificial sequence
 37 <220> FEATURE:
 39 <223> OTHER INFORMATION: mus musculus primer
 40 <400> SEQUENCE: 2
 42 gctcgggtcag gatcttcag agg 23
 43 <210> SEQ ID NO: 3
 46 <211> LENGTH: 20
 47 <212> TYPE: DNA
 48 <213> ORGANISM: artificial sequence
 49 <220> FEATURE:
 51 <223> OTHER INFORMATION: mus musculus primer
 52 <400> SEQUENCE: 3
 54 gctacacatt cagtagcttc 20
 55 <210> SEQ ID NO: 4
 58 <211> LENGTH: 20
 59 <212> TYPE: DNA
 60 <213> ORGANISM: artificial sequence
 61 <220> FEATURE:
 63 <223> OTHER INFORMATION: mus musculus primer
 64 <400> SEQUENCE: 4
 66

Does Not Comply
Corrected Diskette Needed
CP 8.2, 6)

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/534,788A

DATE: 06/06/2006
TIME: 10:58:58

Input Set : F:\VOSS007.txt
Output Set: N:\CRF4\06062006\J534788A.raw

67 gtatggcatg tttaccatcg 20
70 <210> SEQ ID NO: 5
71 <211> LENGTH: 20
72 <212> TYPE: DNA
73 <213> ORGANISM: artificial sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: mus musculus primer
78 <400> SEQUENCE: 5
79 tcagtagctt ctggatagag 20
82 <210> SEQ ID NO: 6
83 <211> LENGTH: 26
84 <212> TYPE: DNA
C--> 85 <213> ORGANISM: artificial primer → Pls correct as Artificial Sequence -
87 <220> FEATURE:
88 <223> OTHER INFORMATION: mus musculus primer
90 <400> SEQUENCE: 6
91 gtatggcatg tttaccatcg tattac 26
94 <210> SEQ ID NO: 7
95 <211> LENGTH: 20
96 <212> TYPE: DNA
97 <213> ORGANISM: artificial sequence
99 <220> FEATURE:
100 <223> OTHER INFORMATION: mus musculus primer
102 <400> SEQUENCE: 7
103 gttacaattt ctccgacaag 20
106 <210> SEQ ID NO: 8
107 <211> LENGTH: 20
108 <212> TYPE: DNA
109 <213> ORGANISM: artificial sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: mus musculus primer
114 <400> SEQUENCE: 8
115 gtcgcaggcg gaataatcac 20
118 <210> SEQ ID NO: 9
119 <211> LENGTH: 20
120 <212> TYPE: DNA
121 <213> ORGANISM: artificial sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: mus musculus primer
126 <400> SEQUENCE: 9
127 tctccgacaa gtggattcac 20
130 <210> SEQ ID NO: 10
131 <211> LENGTH: 20
132 <212> TYPE: DNA
133 <213> ORGANISM: artificial sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: mus musculus primer
138 <400> SEQUENCE: 10
139 gcaggcggaa taatcacccg 20

RAW SEQUENCE LISTING

DATE: 06/06/2006

PATENT APPLICATION: US/10/534,788A

TIME: 10:58:58

Input Set : F:\VOSS007.txt

Output Set: N:\CRF4\06062006\J534788A.raw

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142 <210> SEQ ID NO: 11
143 <211> LENGTH: 21
144 <212> TYPE: DNA
145 <213> ORGANISM: artificial sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: homo sapiens primer
150 <400> SEQUENCE: 11
151 tggcagatga gcttggactt g 21
154 <210> SEQ ID NO: 12
155 <211> LENGTH: 21
156 <212> TYPE: DNA
157 <213> ORGANISM: artificial sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: homo sapiens primer
162 <400> SEQUENCE: 12
163 acactctccc ctgttgaagc t 21
166 <210> SEQ ID NO: 13
167 <211> LENGTH: 20
168 <212> TYPE: DNA
169 <213> ORGANISM: artificial sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: homo sapiens primer
174 <400> SEQUENCE: 13
175 gtgctccctt catgcgtgac 20
178 <210> SEQ ID NO: 14
179 <211> LENGTH: 21
180 <212> TYPE: DNA
181 <213> ORGANISM: artificial sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: homo sapiens primer
186 <400> SEQUENCE: 14
187 actcgtcata ctctgcttg c 21
190 <210> SEQ ID NO: 15
191 <211> LENGTH: 24
192 <212> TYPE: DNA
193 <213> ORGANISM: artificial sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: homo sapiens primer
198 <400> SEQUENCE: 15
199 tggaagaggc acgttctttt cttt 24
202 <210> SEQ ID NO: 16
203 <211> LENGTH: 20
204 <212> TYPE: DNA
205 <213> ORGANISM: artificial sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: homo sapiens primer
210 <400> SEQUENCE: 16
211 agttaccgga ttggagggcg 20
214 <210> SEQ ID NO: 17

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RAW SEQUENCE LISTING

DATE: 06/06/2006

PATENT APPLICATION: US/10/534,788A

TIME: 10:58:58

Input Set : F:\VOSS007.txt

Output Set: N:\CRF4\06062006\J534788A.raw

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215 <211> LENGTH: 19
216 <212> TYPE: DNA
217 <213> ORGANISM: artificial sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: homo sapiens primer
222 <400> SEQUENCE: 17
223 ccttccaggc cactgtcac 19
226 <210> SEQ ID NO: 18
227 <211> LENGTH: 20
228 <212> TYPE: DNA
229 <213> ORGANISM: artificial sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: homo sapiens primer
234 <400> SEQUENCE: 18
235 gtggggcgcc ccaggcacca 20
238 <210> SEQ ID NO: 19
239 <211> LENGTH: 23
240 <212> TYPE: DNA
241 <213> ORGANISM: artificial sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: homo sapiens primer
246 <400> SEQUENCE: 19
247 gatggaggcg gcgatccaca cgg 23
250 <210> SEQ ID NO: 20
251 <211> LENGTH: 23
252 <212> TYPE: DNA
253 <213> ORGANISM: artificial sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: homo sapiens primer
258 <400> SEQUENCE: 20
259 cagrtgcagc tgggtgcartc tgg 23
262 <210> SEQ ID NO: 21
263 <211> LENGTH: 23
264 <212> TYPE: DNA
265 <213> ORGANISM: artificial sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: homo sapiens primer
270 <400> SEQUENCE: 21
271 saggtccagc tggtrcagtc tgg 23
274 <210> SEQ ID NO: 22
275 <211> LENGTH: 23
276 <212> TYPE: DNA
277 <213> ORGANISM: artificial sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: homo sapiens primer
282 <400> SEQUENCE: 22
283 caggtccagc ttgtacagtc tgg 23
286 <210> SEQ ID NO: 23
287 <211> LENGTH: 23

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RAW SEQUENCE LISTING

DATE: 06/06/2006

PATENT APPLICATION: US/10/534,788A

TIME: 10:58:58

Input Set : F:\VOSS007.txt

Output Set: N:\CRF4\06062006\J534788A.raw

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288 <212> TYPE: DNA
289 <213> ORGANISM: artificial sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: homo sapiens primer
294 <400> SEQUENCE: 23
295 sagrtcacct tgaaggagtc tgg 23
298 <210> SEQ ID NO: 24
299 <211> LENGTH: 23
300 <212> TYPE: DNA
301 <213> ORGANISM: artificial sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: homo sapiens primer
306 <400> SEQUENCE: 24
307 saggtgcagc tgggtggartc tgg 23
310 <210> SEQ ID NO: 25
311 <211> LENGTH: 23
312 <212> TYPE: DNA
313 <213> ORGANISM: artificial sequence
315 <220> FEATURE:
316 <223> OTHER INFORMATION: homo sapiens primer
318 <400> SEQUENCE: 25
319 gaggtgcagc tgktggagwc ygg 23
322 <210> SEQ ID NO: 26
323 <211> LENGTH: 23
324 <212> TYPE: DNA
325 <213> ORGANISM: artificial sequence
327 <220> FEATURE:
328 <223> OTHER INFORMATION: homo sapiens primer
330 <400> SEQUENCE: 26
331 cagctgcagc tacagcagtg ggg 23
334 <210> SEQ ID NO: 27
335 <211> LENGTH: 23
336 <212> TYPE: DNA
337 <213> ORGANISM: artificial sequence
339 <220> FEATURE:
340 <223> OTHER INFORMATION: homo sapiens primer
342 <400> SEQUENCE: 27
343 cagstgcagc tgcaggagtc sgg 23
346 <210> SEQ ID NO: 28
347 <211> LENGTH: 23
348 <212> TYPE: DNA
349 <213> ORGANISM: artificial sequence
351 <220> FEATURE:
352 <223> OTHER INFORMATION: homo sapiens primer
354 <400> SEQUENCE: 28
355 gargtgcagc tgggtgcagtc tgg 23
358 <210> SEQ ID NO: 29
359 <211> LENGTH: 23
360 <212> TYPE: DNA

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<210> SEQ ID NO 56
 <211> LENGTH: 31
 <212> TYPE: DNA
 <213> ORGANISM: artificial sequence
 <220> FEATURE:
 <223> OTHER INFORMATION: homo sapiens primer
 <220> FEATURE:
 <221> NAME/KEY: misc_feature
 <222> LOCATION: (31)..(31)
 <223> OTHER INFORMATION: n denotes a variable number of nucleotides which are
 part of the
 sequence of specific VL clones
 <400> SEQUENCE: 56
 ggagccgccg ccgccagaac caccaccacc n

'n' Can Represents only
 Single nucleotide
 See Item

13

on

Error

31 Summary
Sheet.

The type of errors shown exist throughout
 the Sequence Listing. Please check subsequent
 sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/06/2006
PATENT APPLICATION: US/10/534,788A TIME: 10:58:59

Input Set : F:\VOSS007.txt
Output Set: N:\CRF4\06062006\J534788A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:56; N pos. 31
Seq#:57; N pos. 34

VERIFICATION SUMMARY

DATE: 06/06/2006

PATENT APPLICATION: US/10/534,788A

TIME: 10:58:59

Input Set : F:\VOSS007.txt

Output Set: N:\CRF4\06062006\J534788A.raw

L:85 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:517 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:42
L:698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0